Applicant: Haruo Sugiyama et al. Attorney's Docket No.: 14875-0170US1 / C1-A0403P-US

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- (Currently amended) A method for separating a hepatic, endothelial, or hematopoietic progenitor cell from a cell population, wherein the method comprises the steps of:
- a) detecting the expression of a WT1 gene or of a reporter gene linked to a WT1 promoter in a cell in a cell population; and
- b) separating the cell in which from the cell population if expression of the WT1 gene was or reporter gene is detected, thereby separating a hepatic, endothelial, or hematopoietic progenitor cell from a cell population.
- (Withdrawn) A method for simultaneously separating at least two progenitor cells from a cell population, wherein the progenitor cells are selected from hepatic, endothelial, and hematopoietic progenitor cells, and wherein the method comprises the steps of:
- a) detecting the expression of a WT1 gene in a cell in a cell population comprising at least two progenitor cells, selected from hepatic, endothelial, and hematopoietic progenitor cells;
 and
 - b) separating the cells in which expression of the WT1 gene was detected.
- (Currently amended) The method of claim 1, wherein step a) comprises detection of
 expression of the WTI-gene is detected by using expression of a WTI-gene or of a reporter gene
 linked to a WTI-promoter as an indicator.

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(Currently amended) The method of claim 3, wherein the reporter gene is a lacZ gene
or green fluorescent protein (GFP) gene, and expression of the reporter gene is detected by a
FACS assay.

- 5. (Currently amended) The method of elaim-1 claim 12, wherein a hepatic progenitor cell or an endothelial progenitor cell is separated when the expression level of the WT1 gene is in the range of 2.21 (±1.62) x 10⁻² (when expression of the WT1 gene in a K562 leukemia cell line is defined as 1), and a hematopoietic progenitor cell is separated when the expression level of the WT1 gene is in the range of 3.54 (±3.39) x 10⁻⁴ (when expression of the WT1 gene in a K562 leukemia cell line is defined as 1).
- (Withdrawn) The method of claim 2, wherein expression of the WT1 gene is detected by using expression of a WT1 gene or of a reporter gene linked to a WT1 promoter as an indicator.
- (Withdrawn) The method of claim 6, wherein the reporter gene is a lacZ gene or GFP gene, and expression of the reporter gene is detected by a FACS assay.
- 8. (Withdrawn) The method of claim 2, wherein a hepatic progenitor cell or an endothelial progenitor cell is separated when the expression level of the WT1 gene is in the range of 2.21 (\pm 1.62) x 10^2 (when expression of the WT1 gene in a K562 leukemia cell line is defined as 1), and a hematopoietic progenitor cell is separated when the expression level of the WT1 gene is in the range of 3.54 (\pm 3.39) x 10^4 (when expression of the WT1 gene in a K562 leukemia cell line is defined as 1).
- (Previously presented) The method of claim 1, wherein the hepatic, endothelial, or hematopoietic progenitor cell is a hepatic progenitor cell.

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 (Previously presented) The method of claim 1, wherein the hepatic, endothelial, or hematopoietic progenitor cell is an endothelial progenitor cell.

- (Previously presented) The method of claim 1, wherein the hepatic, endothelial, or hematopoietic progenitor cell is a hematopoietic progenitor cell.
- 12. (New) The method of claim 1, wherein step a) comprises quantifying an expression level of the WT1 gene in the cell.
 - 13. (New) The method of claim 1, wherein the cell is viable.
- (New) The method of claim 1, wherein the separating step comprises use of FACS sorting.
- 15. (New) The method of claim 1, further comprising culturing the separated cell of step (b) in a culture under conditions suitable for permitting proliferation of a hepatic progenitor cell.
- 16. (New) The method of claim 1, further comprising culturing the separated cell of step (b) under conditions suitable for permitting proliferation of a endothelial progenitor cell.
- 17. (New) The method of claim 1, further comprising culturing the separated cell of step (b) under conditions suitable for permitting proliferation of a hematopoietic progenitor cell.